

Project Leader's Report

February - 2004



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Technology Transfer :

• Joe O'Brien gave an invited paper at the 2nd Pine Rockland Fire Management Workshop in Homestead, Florida. The workshop was sponsored by Everglades National Park and The Nature Conservancy. The title of his paper was "Fire management research in Bahamian Pineyards." While in Florida, O'Brien assisted Dave Reed of FIU's Southeast Environmental Research Center, collect data on light environments in Everglades National Park tree islands. This research is part of the Greater Everglades Restoration effort.

• O'Brien has been invited to participate in a workshop on tropical pine forest ecology and management to be held March 23-28 in Santo Domingo, Dominican Republic. He will represent the Forest Service in welcoming participants who are forest managers from throughout the Caribbean Basin,

including the countries of Mexico, Cuba, Honduras, Nicaragua, the Dominican Republic, Belize, and Haiti. The workshop will be in Spanish, and is being sponsored by The Nature Conservancy Parks in Peril Program, which is funded by the Forest Service International Programs and USAID.



• Yongqiang Liu gave a seminar to the Athens lab staff on "Environmental Effects of Wildfire."

• The Encyclopedia of Southern Fire Science has received over 400 pages of content from authors at cooperating universities throughout the South. Currently, 200 pages are undergoing peer-review by both researchers and managers from a variety of organizations (National Park Service, Southern Research Station, Florida Division of Forestry, St. John's Water Management

Outreach Activities:

Four organized groups totaling 96 people visited the Brender Forest during February. Local landowners and consultant foresters attended a prescribed burning workshop sponsored by the Georgia Extension Service, the Piedmont National Wildlife Refuge, Georgia Forestry Commission (GFC) and Brender Forest. They toured Ken Outcalt's prescribed fire study and Mountain longleaf while on the forest. Dr. Barry Shiver's silviculture class from the University of Georgia came to look at natural regeneration and the site prep studies. Don Duerr, R8 State & Private, and Terry Price, GFC, were at the forest with the Oconee District Staff to look at Southern Pine Beetle problems with the Red-Cockaded Woodpecker cavity trees. The last group included Chattahoochee-Oconee National Forest Supervisor's Office staff, Oconee District staff, and RWU-4104 personnel Ken Outcalt and David Combs.

Continued

Approximately 35 visitors came by the office at the Brender Forest for information and 73 people signed the register at the Hitchiti Interpretive Trail



District, The Nature Conservancy, Auburn University, and the University of Florida). We thank these experts for their time and valuable expertise.

- Scott Goodrick gave two invited presentations, use and interpretation of the Keetch-Byrum Drought Index and the Southern High Resolution Modeling Consortium, at the 2004 Alabama Fire Weather Symposium held in Pelham, AL. The audience consisted of state and federal land managers as well as meteorologists from the National Weather Service and the Southern Area Coordination Center.

- Tom Waldrop and Ross Phillips attended a meeting of the fuels discipline group of the National Fire and Fire Surrogate Study (FFS), including representatives from FFS study sites in Washington, California, Ohio, North Carolina, South Carolina, and Oregon. They discussed the

types of data that will be delivered to the national database and how to handle requests for data use.

- Scott Goodrick assisted the Florida Division of Forestry and Florida Division of Parks and Recreation in an investigation into the weather conditions associated with a prescribed fire that caused several serious injuries to the burn crew. Dramatic changes in fire behavior associated with a strong wind shift led to the burnover incident.

- Goodrick attended the winter meeting of the Southern Fire Danger and Fire Weather Working Team to provide an update on relevant research at SHRMC. Updates were provided on smoke dispersion and air quality modeling as well as ongoing work associated with the national Fire Program Analysis project.

- Kris Connor, SRS-4155 in Starkville, has taken on responsibility for the next Southern Silvicultural Research Conference. She plans to hold the meeting in Memphis, TN in February or March 2005. Staff of SRS-4104 will again assist Kris with the conference, including help with logistics from Lynne Breland and the meeting website from Pat Outcalt and Dmitry Lima. Ken Outcalt will serve on the planning committee.

- Unit staff provided written Issues Papers to the National Wildland Fire Leadership Council during their field trip to Palm Coast, Florida. The Southern Group of State Foresters organized the visit, which was hosted by the Florida Division of Forestry. The council was touring areas in Florida to study a variety of fire management activities on state, private and federal lands. On the tour were Chief Bosworth and Lynn Scarlett,

Assistant Secretary of the U.S. Department of Interior and Chairwoman of the Federal Wildfire Fighting Committee; Rebecca Watson, Assistant Secretary for Land and Minerals Management with the Interior Department; and Mike Long, Florida State Forester. Issues Papers provided by staff included flatwoods fuels management, smoke management, smoke and air quality, and managers' access to best available science.

- John Stanturf has been invited to give a keynote talk on "Disturbance dynamics of forested ecosystems" at the conference on Natural Disturbances and Ecosystem-Based Forest Management, to be held 27-28 May 2004 in Tartu, Estonia. Sponsors of the conference are the Forest Research Institute, Estonian Agricultural University, the SNS (Nordic Forest Research), and IUFRO WP 4.04.08 Nature Conservation Planning. Papers from the conference will be published in *Silva Fennica*.



Meetings / Reports :

- Kenneth Outcalt attended the Reference Condition Workshop for the Southeast Fire Regime Condition Class, held at Tall Timbers Research Station in Tallahassee, Florida. He and other fire ecologist were invited to the workshop to define, describe, and model the potential natural vegetation groups of the southeast and to specify the relative abundance of the different successional stages prior to European settlement.

- Kenneth Outcalt and David Combs met with John Moore, Director of Brender Demonstration Forest, Bill Nightingale District Ranger, Oconee National Forest, and other staff of the Chattahoochee-Oconee National Forest. The purpose of the meeting was to coordinate a thinning operation in stands surrounding our long-term burning research plots on the Oconee, to insure integrity of the research plots. They also discussed potential uses of prescribed burning, techniques for controlling hardwoods, and possible future research activities.

- Planning is proceeding for the Short Rotation Woody Crops Conference to be held in Charleston, SC in November. A pre-conference tour of Eucalyptus plantations in Florida and a post-conference tour to view willow production operations in New York are planned. The pre-conference tour, hosted by Don Rockwood, University of Florida, will start in Orlando. The post conference tour begins in Syracuse and includes a willow harvesting demonstration with modified New Holland equipment, willow clone site trials, and willow plantations for biofuels. Larry Abrahamson, SUNY-ESF, is coordinating this tour.



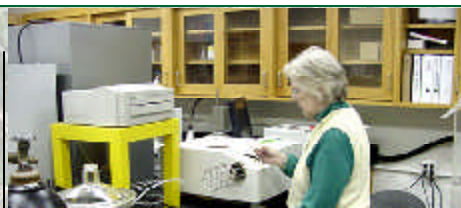
Funding :



- Dave Cleland received \$55,000 from the Washington Office's Sustainability Development Issues Team to help implement the National

Association of State Forester's strategy for identifying communities at risk, using national indicators of sustainability from the Montreal process as an organizing framework. Dave will work with state cooperators in Wisconsin and Michigan to assess the flammability and connectivity of fuels, locations of natural fuel breaks, and the wildland-urban interface/intermix across 37 million acres. Results will aid managers in identifying communities at risk, and prioritizing landscape-level fuel treatments. National indicators to be addressed include: (i) areas outside the range of historical variability in disturbance regimes, (ii) forest fragmentation, and (iii) extent of forestland by forest type and successional status. The project also has applications in fire regime condition class mapping and implementation of the Healthy Forest Restoration Act.

- Unit scientists were busy submitting proposals this month. Ralph DiCosty and John Stanturf, in cooperation with Dr. Bill Ball (Johns Hopkins University, JHU) and Drs. Yao-Ying Chien and Brian Teppen (Michigan State University, MSU), submitted a three-year proposal to the Soils and Soil Biology Division of the USDA National Research Initiative Competitive Grants Program. The proposal, entitled "Toward a Standard Method for the



Mary Sue Brewer (UGA) prepares to run a soil organic matter sample on a thermogravimetric analyzer.

Determination of Black Carbon in Soil", seeks to bring together expertise in fire effects (USDA-FS), black carbon (JHU), and spectroscopy (MSU). Preliminary data for the proposal were obtained with a thermogravimetric analyzer owned by the University of Georgia Department of Textiles, Merchandising, and Interiors (UGA-TMI). Use of this instrument was made possible with cooperation from Mary Sue Brewer, Professor Patti Annis, and Department Chair Ian Hardin (UGA-TMI). Brewer ran the instrument with soil samples collected by DiCosty. The soils represented Florida pine ecosystems with vastly different fire histories, and exhibited clear differences in thermal behavior.

- Mac Callaham, Ralph DiCosty, and Joe O'Brien submitted a proposal, also to NRI, "Prescribed fire effects on soil microbes, organic matter dynamics, and carbon storage in flatwoods of the southeastern coastal plain, USA." Objectives of this study are to quantify tradeoffs between carbon losses due to frequent annual fires and C gains as black carbon inputs to soil and to understand how changes in vegetation associated with

GPRA Accomplishments:

Category	FY 2003 Total	FY 2004 To Date
Number of Refereed Journal Publications	24	11
Number of Non-Refereed Publications (include abstracts)	50	32
Number of Publications (refereed + non-refereed)	74	43
Number of Tours	66	22
Number of Short Courses/Training	8	10
Number of Invited Presentations to Scientific Organizations	8	10
Number of Invited Presentations to Lay Organizations	45	13
Volunteer Presentations to Scientific Organizations (non-GPRA)	27	30
Number of Technology Transfer Activities (other than above)	135	62
Outside Funding	\$1,955,455	\$2,034,500

Funding :

fire regime are linked to patterns of forest floor development and soil organic matter dynamics.

- Tom Waldrop submitted a proposal in response to an RFP from SRS-4501 for research on southern pine beetles. The proposal, entitled “Epidemic Southern Pine Beetle Attacks: A Problem of Fuel-Loading or an Opportunity for Management,” was co-authored by Roy Hedden and Geoff Wang of Clemson University and Mac Callaham and Sandra Rideout-Hanzak of SRS-4104. The work would consider management implications for beetle-killed areas for commercial forestry objectives as well as restoration objectives. If funded, the study will be conducted on Clemson Experimental Forest and at the Kings Mountain National Military Park. Response variables will include vegetation inside and outside of beetle-killed areas, soil fertility and structure, fire behavior, and fuel reduction. Results from the study would provide land managers a better understanding of the tradeoffs between prescribed burning and mechanical fuel reduction in areas with unusually heavy fuel loads.

- Yong Liu submitted a Letter of Intent to NASA for their carbon RFP, “Contributions of wildfires in the western US to the carbon budget.” Co-PI’s include Hanqin Tang, Auburn University, John Qu, George Mason University, and John Stanturf.



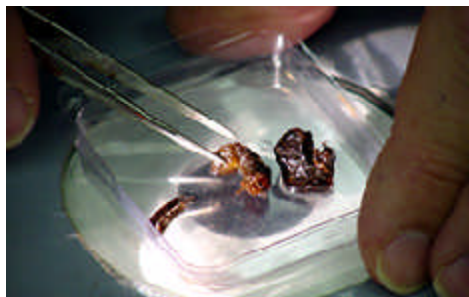
- Rick Reitz submitted an NRI proposal, “Ectomycorrhizae diversity under several prescribed wildland fire scenarios in loblolly pine (*Pinus taeda* L.) growing in old field soil.” This proposal would fund Rick’s Ph.D. program at UGA with Ron Hedrick. Rick proposes to determine whether prescribed burning

changes ectomycorrhizal fungi species diversity using DNA fingerprinting and soil analyses.

- John Stanturf is a cooperator on another NRI proposal, “Carbon sequestration in afforested agricultural land: A 60-year chronosequence in Lower Mississippi Alluvial bottomlands.” Principal Investigators are Richard Maiers and Andrew Londo, Mississippi State University and Stephen Schoenholtz, Oregon State University.

Visitors :

- Mac Callaham hosted researchers from the USDA Agricultural Research Station in Beaver, West Virginia, for a one-day soil invertebrate workshop. Attendees Kathy O’Neill, Harry Godwin, and Barry Harter learned techniques for sampling, extracting, and identifying a suite of soil invertebrates. The group also discussed sampling approaches for a specific project that O’Neill will be directing in the near future, and agreed to collaborate on the sample and data processing for this project.



Soil arthropod identification - root-chewing scarab beetle larvae

- Rangers from the Chattahoochee-Oconee visited the lab and John Stanturf; Bill Nightingale, Oconee RD and Alan Polk, Brasstown RD were in Athens for another meeting and stopped by to get acquainted.

- Tom Waldrop and Roy Hedden (Clemson University) were visited by Dr. Chris Hawkins of the University of Northern British Columbia and Janet Mitchell of the Forest Engineering Research Institute of Canada. Both researchers are interested in ecological impacts of southern pine beetle and how fire can be used to control beetle movement. Tom introduced them to the National Fire and Fire Surrogate study and discussed treatment impacts relative to the epidemic beetle attacks observed in 2001 through 2003.

Personnel News :

- Staff attended AVUE training provided by Judy Womble and Vivian Vair, Human Resources. Janet Revell, Ken Outcalt, Alex Clark, Tom Waldrop, and Gary Achtemeier learned how to use this automated classification and application procedure, in order to develop position descriptions in the future.

- Cynthia Fowler, Tom Philipps, and Richard Reitz met with Tommy Anderson, Forest Fire Management Officer, and Tony Rider, Assistant Forest Fire Management Officer of the Chattahoochee-Oconee National Forests to review qualifications for fire assignments. The outcome of the meeting was fire management qualification (red) cards for each of these DMSP employees. Cynthia is qualified (red carded) as a firefighter 2 trainee (FFT2 (T)) in wildland fire operations, and as a prescribed fire burn boss 3 trainee (RXB3 (T)) in prescribed fire use. Tom is qualified (red carded) as a prescribed fire burn boss trainee (RXB3 (T)) in prescribed fire use. Richard is qualified as a fire behavior analyst (FBAN), Division/

News from around the Region :

Group Supervisor (DIVS), incident commander 3 (ICT3), and operations section chief (OSC2), incident commander type 2 trainee (ICT2 (T)), prescribed fire burn boss type 2 trainee (RXB2 (T)), long term fire analyst trainee (LTAN (T)), and information officer type 3 trainee (IOF3 (T)). Ben Hornsby, a student employee, passed the arduous level pack test, and Tom Philipps passed the moderate level pack test. Other employees from the unit will receive their wildland and prescribed fire qualifications over the next few weeks.



Cynthia Fowler, firefighting anthropologist.

- Jim Hanula was named Project Leader of SRS-4505 and Athens Director's Representative. Jim has been acting PL of the Insects and Diseases of Southern Forests unit since departure of Kerry Britton.

- Dana Nelson takes over as Project Leader of SRS-4153, Southern Institute of Forest Genetics in Saucier. Floyd Bridgewater remains as scientist in unit.

- Congratulations to Chung-Yun Hse, SRS-4701 Pineville. Chung was awarded the Chief's Award for Superior Science for "successful conceptualization, development, and execution of a research program marked by innovation, productivity, and international collaborations."

- Hats off also to Andy Dolloff, PL, SRS-4202 (Cold Water Streams and Trout Habitat in the Southern Appalachians Unit, Blacksburg) and Nancy Herbert, Assistant Director, Asheville, who received Rise to the Future Awards. Andy received the award for Mentor; Nancy's award was for Professional Excellence in Research. Region 8 awardees were Gerry Farmer, Forest Supervisor, National Forests of Mississippi for Line Officer and the Homochitto Ranger District, National Forests of Mississippi for Recreational Fishery Resources Accomplishment (Okhissa Lake and Recreation Complex).

- A new Arkansas landowner website <http://www.arkansastimber.info/> is available that includes links to the FIA website to access inventory information.

- The Library Information Services and Information Systems Services at the Finnish Forest Research Institute provide

another Internet information service with a list of forestry and biological sciences journals and reports: <http://www.metla.fi/info/vlib/Forestry/Category/Publications/Journals/>. It is part of the international [World Wide Web Virtual Library](http://www.worldwideweb.org/) of subject oriented link collections. It includes an independent sub-section for [Forest Genetics and Tree Breeding](http://www.biology.com/ForestGenetics/ForestGenetics.html). Another resource is AgriFor, <http://agrifor.ac.uk>. It's a gateway to evaluated, quality Internet resources in agriculture, food and forestry, aimed at students, researchers, academics and practitioners in agriculture, food or forestry. AgriFor is one of the gateways within the BIOME service (<http://biome.ac.uk/>). BIOME is part of the Resource Discovery Network (RDN) <http://www.rdn.ac.uk/>, and is funded by the [Joint Information Systems Committee](http://www.jisc.ac.uk/) (JISC).

- The University of Georgia is once again hosting the Southern Forestry and Natural Resource Management GIS conference. The conference will be held December 16-17, 2004, in Athens, GA. Called SOFOR GIS '04, the conference is the fourth in a series that began in 1996, and will attract 200-300 professionals to the 2-day event. The call for papers and further information is available at <http://www.gactr.uga.edu/conferences/forestry/index.html>.

- A report from Southeastern NEON Planning Workshop, held in October 2003 is available <http://www.seeon.org>. The workshop was held in response to a major new initiative proposed by the scientific community and the National Science Foundation, the National Ecological Observatory Network

(NEON). The report describes the proposed SouthEast Ecological Observatory Network (SEEON) and the path forward in establishing this regional consortium. The objectives of the SEEON are to promote the development of capabilities and tools necessary to visualize and forecast regional environmental change, to interface with other organizations and consortia working towards the establishment of a national ecological observatory, and to promote education and public outreach activities throughout the southeastern region.

- The Forest Genetic Resources and the Silviculture Working Groups of the North American Forest Commission/FAO and the International Union of Forest Research Organizations (IUFRO) Divisions 1 and 2 held a one-day symposium as a side event of the XII World Forestry Congress in Quebec City, Canada in September 2003. The theme for the symposium was “Silviculture and the Conservation of Genetic Resources in Sustainable Forestry.” In many countries, genetic improvement programs for important commercial forest species are viewed as a component of forest conservation and as a contribution to the economic welfare of their citizens. Plantation forestry is expanding around the world for important commercial species. Among the issues and questions addressed during the symposium were what we know about the silvicultural practices that apply to these plantations; their effect on native forest ecosystems. While acknowledging our reliance on plantations to satisfy demand for wood and paper products, speakers asked whether we have adequately accounted for conservation of genetic diversity and are there programs to protect endangered tree species in various countries? If so, when were they implemented and how do they work? Should genetic diversity be used as a criterion of sustainable forest management? If so, what indicator of diversity should be used? The proceedings of the symposium will soon be available on the North American Forest Commission’s website at <http://www.fs.fed.us/global/nafc/genetics/activities.htm>.

- According to the report “2003 Year in Review” released by Forest Certification Watch, certified forest areas worldwide grew by 31% in 2003 to reach 173 million hectares (427 million acres), mainly due to a doubling of certified lands in Canada, which reached 56 million hectares (140 million acres). The report shows the three dominant North

American forest certification programs, Forest Stewardship Council, Canadian Standards Association, and Sustainable Forestry Initiative, contributing significantly to the Canadian surge in certified areas. FSC certified areas tripled, chiefly through the first large-scale FSC certification in the boreal forest in Northern Ontario. CSA grew by 96% to reach 28 million hectares (70 million acres) and is now the predominant system in Canada. SFI also surged in Canada in 2003 reaching 24 million hectares (60 million acres) by the end of 2003; an area largely exceeding SFI third-party certified forestlands in the US, which reached 16 million hectares (41 million acres) at the end of the 2003. With 56 million hectares (140 million acres), Canada’s total certified area is now about double that of the US, where certification stagnated in 2003, registering only modest increases in SFI and FSC-certified areas. Forest Certification Watch: 2003 Year in Review Volume I, the 6th annual report published by Forest Certification Watch, covers those and other prominent North American developments. Volume II examines developments in Europe, Oceania and the Tropics. This includes an increase in certified area under both the FSC and Pan-European Forest Certification (PEFC)-endorsed schemes in Europe; the development of certification in Australia and New Zealand; the emergence of illegal logging as an international concern; EU and US initiatives to combat illegal logging and the launch of a Reduced Impact Logging verification initiative. For further information see www.CertificationWatch.org.

- Weyerhaeuser Company announced plans to sell approximately 300,000 acres of timberlands in middle Georgia to reduce debt associated with the acquisition of Willamette Industries. Weyerhaeuser, the world’s largest owner of merchantable softwood timber, added 1.7 million acres to its portfolio with the Willamette acquisition. The company now owns or manages approximately 7.5 million acres of commercial forestland in North America. Seventeen employees will be affected by the sale. (Source: PRNewswire-FirstCall)

- New Zealand's Fletcher Challenge Forests Ltd. renamed itself Tenon Ltd. to reflect its exit from the forestry business. With shareholder approval of the NZ\$560 million sale of Fletcher's forest estate to the Kiwi Forests Group Ltd, Fletcher will complete its exit from ownership of forests once it sells cutting rights to its Tarawera estate. (Source: Dow Jones)

- Prices for used cardboard boxes, known in the packaging industry as old corrugated containers (OCC), are expected to soar due to surging demand from China. This will benefit U.S. packaging makers while crimping margins at their overseas rivals. Cheap and readily available domestic softwood allows U.S. packaging companies to make most of their cardboard from wood. But overseas packagers rely heavily on recycling old boxes. Competitors in Europe and Asia should push packaging prices higher to cover their own costs. (Source: Reuters)



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Upcoming Events :

2004		Jun 27-Jul 2	First Agroforestry World Congress, Orlando, FL http://conference.ifas.ufl.edu/wca/#background
Mar 1-2	SRS Management Team meeting, Atlanta	Jul 25-31	7th INTECOL International Wetlands Conference, Utrecht, The Netherlands. http://www.bio.uu.nl/INTECOL
Mar 2-4	Southern Research Station All Scientists Meeting, Atlanta	Aug 15-20	Large-Scale Experiments for Sustainable Forestry: Balancing Ecosystem Values; International IUFRO Workshop, Portland, OR. http://outreach.cof.orst.edu/ecosystem Call for papers now out, abstracts due January 30!!
Mar 3-5	National Fire Plan and Wildland Fire Conference 2004, Reno, NV http://www.iafc.org/pdf/conf/WF04_attendee.pdf	Aug 23-27	Society Ecological Restoration International annual meeting, Victoria, BC; http://www.ser.org/meeting.php?pg=call4abstracts2004
Mar 17-19	14th Central Hardwood Forest Conference, Wooster, OH. http://www.oardc.ohio-state.edu/chfc2004/	Sep 1-2	Forest IT 2004 Exhibition and Congress, Jyväskylä, Finland; http://www.ForestIT.net
Mar 24-27	Coastal Plain Chapter, Society for Ecological Restoration Annual Meeting, Raleigh, NC; www.ser-coastalplains.org	Sep 3-7	European Forest Institute (EFI) Annual Meeting, Bangor, Wales (UK).
May 25-29	IUFRO Conference, Restoration of forest soils in polluted areas, Praha, Czech Republic, http://www-ldf.mendelu.cz/konference/rfspa/	Sep 4-12	EUROSOIL, Freiburg, Germany; www.forst.uni-freiburg.de/eurosoil
May 3-7	12th meeting of the International Boreal Forest Research Association, "Climate-Disturbance Interactions in Boreal Forest Ecosystems", Fairbanks, Alaska http://www.lter.uaf.edu/ibfra/default.cfm	Sep 12-16	IUFRO Conference Regenerating Mountain Forests, Kloster Seeon, Bavaria, Germany; http://www.forst.tu-muenchen.de/events/rmf2004/index_en.html
May 4-5	AF&PA's Agenda 2020 Wood and Wood Composites Task Group—formerly the Committee on Research Evaluation (CORE)—meeting, Forest Products Lab in Madison, WI	Sep 20-22	IUFRO All Division 8 Conference, Conservation biology and ecosystem functioning in plantation forests, Bordeaux, France; http://www.pierroton.inra.fr/IEFC/manifestations/IUFROD8_2004registration.php
May 11-13	Interagency Fire and Air Group meeting, Athens; contact Gary Achtemeier (gachtemeier@fs.fed.us) for information	Sep 27-30	IUFRO Conference: The Economics and Management of High Productivity Plantations, Lugo, Spain; http://www.lugo.usc.es/iufro
*May 27-29	IUFRO Conference Natural Disturbances and Ecosystem-Based Forest Management, Tartu, Estonia; Stanturf to attend and present http://www.eau.ee/~ecosyst/	Oct 1-7	The National Wilderness Summit and Expo will be held, Denver, CO; http://www.wilderness.net/40th
Jun 14-18	IUFRO Division 1 - Silviculture Conference, CIRADForet, in Montpellier, France. Note date change.		
Jun 24-26	Greenhouse gas emissions and abrupt climate change: Positive options and robust policy, Paris, France; dates and location tentative; http://www.iiasa.ac.at		

Oct 2-6	Society American Foresters Annual Meeting, held jointly with Canadian Institute of Forestry, Edmonton, Alberta
*Oct 17-22	North American Forestry Commission, Joint Meeting of Silviculture and Genetics Working Groups, Morelia, Michoacán, México; Stanturf to attend
Oct 18-22	Advancing the Fundamental Sciences - A Conference for Forest Service Physical Scientists San Diego, CA
Oct 19-21	SRS Management Team meeting, Coweeta or New Orleans
Mar 2-4	Southern Research Station All Scientists Meeting
Oct 31-Nov 3	Soil Science Society of America Annual Meeting, Seattle, WA.
Nov 6-8	Southeastern Society American Foresters Annual Meeting, Jacksonville, FL "Managing forests for wildlife"
Nov 7-11	Short Rotation Woody Crops Operations Working Group Biennial Meeting, Charleston, SC
Nov 8-12	Short Rotation Woody Crops Operations Working Group Biennial Meeting, Charleston, SC (date change)
Nov 17-25	IUCN Third World Conservation Congress (WCC), Bangkok.
Nov 24-26	Introduction of broadleaf species for sustainable forest management, international conference sponsored by SUSTMAN project at the University of Ulm, to be held in Reimsburg, Germany, http://www.sustman.de
*Dec 16-17	SOFOR GIS 2004, Athens, GA; http://www.gactr.uga.edu/conferences/forestry/index.html

2005

*Feb-Mar	Southern Silvicultural Research Conference, Memphis; date and location TBA
Aug 8-13	IUFRO World Congress, Brisbane, Australia. Stanturf to attend. http://www.iufro2005.com
Aug/Sep	Society for Ecological Restoration 17th International Conference, Zaragoza, Spain.
Oct 19-23	Society American Foresters Annual Meeting, Ft. Worth, TX
Nov 6-10	Soil Science Society of American Annual Meeting, Salt Lake City, UT
TBD	5th International Conference on Forest Vegetation Management, IUFRO Research Group 1.13.00 Forest Vegetation Management. Corvallis, Oregon, USA Contact: Robin Rose , robin.rose@orst.edu.

2006

Jul 9-15	18th World Congress of Soil Science, in Philadelphia, PA http://www.18wcss.org
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"Inanimate objects are classified scientifically into three major categories - those that don't work, those that break down and those that get lost."

- Russell Baker

"I'm a great believer in luck, and I find the harder I work the more I have of it."

-Thomas Jefferson

SRS-4104 Project Leader's Report

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